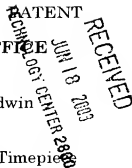




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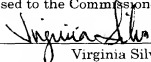
## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kenichi Miyazawa, et al. Group Art Unit: 2841  
Serial No.: 09/810,853 Examiner: J. Goodwin  
Filed: March 16, 2001  
Title: Temperature Difference Drive Unit, And Electric Device, Timepiece  
And Light Electrical Appliance Having The Same



## CERTIFICATE OF MAILING

I hereby certify that this Supplemental Information Disclosure Statement and the documents attached hereto, are being deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
Date: June 12, 2003

  
Virginia Silva

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty of disclosure under 37 C.F.R. §1.56, and in accordance with the practice under 37 C.F.R. §1.97 and §1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed information are also enclosed.

Information in this Information Disclosure Statement was cited in a communication from a foreign Patent Office in a counterpart foreign application. A copy of that communication is submitted herewith.

It will be noted that Japanese Patent Abstract 06-341371 cited in connection with the foreign application was included in a previously-filed Information Disclosure Statement and is therefore not listed herein.


This Information Disclosure Statement is being filed within three months of the U.S. filing date or before the mailing date of a first Office Action on the merits. No statement or fee is required (37 CFR §1.97(b)).

## CONCLUSION

The Commissioner is hereby authorized to charge any additional fees, which may be required, or credit any over-payment to Deposit Account No.: 19-2746.

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be initialed and returned indicating that such information has been considered.

Respectfully submitted,



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Date: June 12, 2003

SERIAL NO.  
09/810,853ATTY DOCKET NO.  
P5626a

APPLICANT

Kenichi Miyazawa, et al.

FILING DATE

March 16, 2001

GROUP

2841

INFORMATION DISCLOSURE CITATION  
USE SEVERAL SHEETS IF NECESSARY  
PAGE 1 OF 1

## U.S. PATENT DOCUMENTS

E.I.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
AA	4,341,072	7/27/82	Clyne			
AB	4,235,075	11/25/80	Erb			
AC	3,442,078	5/6/69	Nolan			
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

## FOREIGN PATENT DOCUMENTS

E.I.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
AL	2 095 338	9/29/82	GB			
AM	7-279820	10/27/95	Japan			Abstract
AN						
AO						
AP						
AQ						

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

AR	
AS	
AT	
EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



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**Europäisches  
Patentamt**

Zweigstelle  
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abteilung

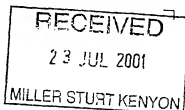
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Datum/Date  
24.07.01

Zeichen/Ref./ EPP13730A	Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°. 01302400.5-2315-
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire SEIKO EPSON CORPORATION	

## COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☐ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☒ abstract

☒ title

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

1

## REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 01 30 2400

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 4 341 072 A (CLYNE ARTHUR J) 27 July 1982 (1982-07-27) * column 1, line 7 - line 12 * * column 1, line 37 - line 42 * ----	1, 5, 9, 18, 19	F03G7/06 H02K7/18
X	US 4 235 075 A (ERB GEORGE H) 25 November 1980 (1980-11-25) * abstract * * column 1, line 61 - line 65 * * column 9, line 31 - line 36 * * column 9, line 57 - line 65 * ----	1, 4, 5, 9, 18, 19 2	
Y	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 03, 28 April 1995 (1995-04-28) -& JP 06 341371 A (CITIZEN WATCH CO LTD), 13 December 1994 (1994-12-13) * abstract * ----	1, 4-10, 18, 19	
Y	US 3 442 078 A (NOLAN RICHARD D) 6 May 1969 (1969-05-06) * column 3, line 34 - line 50 * ----	1, 2, 4-10, 18, 19	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	GB 2 095 338 A (TUNGUM HYDRAULICS LTD) 29 September 1982 (1982-09-29) * abstract; figure 1 * * page 1, line 8 - line 12 * * page 1, line 35 - line 38 * ----	1, 4-10	F03G H02K
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02, 29 February 1996 (1996-02-29) & JP 07 279820 A (CITIZEN WATCH CO LTD), 27 October 1995 (1995-10-27) * abstract * -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 July 2001	Examiner CONTRERAS SAMPAYO, J
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

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EPO FORM 1503 (03.02.02) (P01001)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 30 2400

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

17-07-2001

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US	4341072 A	27-07-1982	NONE	
US	4235075 A	25-11-1980	NONE	
JP	06341371 A	13-12-1994	NONE	
US	3442078 A	06-05-1969	NONE	
GB	2095338 A	29-09-1982	NONE	
JP	07279820 A	27-10-1995	NONE	